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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/073,672	02/11/2002	Densen Cao	5061.19 P	8231
7590 09/23/2004		EXAMINER		
Parsons, Behle & Latimer			LEWIS, RALPH A	
Suite 1800			ART UNIT	PAPER NUMBER
201 South Main	Street		AKI UNII	FAI EK NOMBEK
P.O. Box 45898			3732	
Salt Lake City,	UT 84145-0898		DATE MAILED: 09/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	$\sim M$		
	10/073,672	CAO, DENSEN	U'		
Office Action Summary	Examiner	Art Unit			
	Ralph A. Lewis	3732			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was a reply reply reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o O (35 U.S.C. § 133).	ly. ommunication.		
Status	•				
1) Responsive to communication(s) filed on 14 Ju	<u>ine 2004</u> .				
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
 4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 	vn from consideration.		<i>,</i>		
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this Nationa	I Stage		
Attachment(s)	. 				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	F1		O-152)		

Rejections based on Prior Art

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mills (WO 99/16136) in view of Logan et al (6,692,251)

In Figure 5 Mills discloses a dental light curing device having a housing 47, an air space between housing 47 and elongated secondary heat sink 45 with proximal and distal ends (sides). The Mills device further includes a thermo electric cooler 50 and a fan 49 for circulating air past the thermo cooler 50. While it is not explicitly disclosed, the ordinarily skilled artisan would readily recognize that the housing must necessarily have a vent in order for the fan 49 to work. Mills further discloses a plurality of covered LEDs 43 located on primary heat sink 49 and light transport device 41 for transporting light to a remote location. The Figure 5 Mills embodiment fails to include the claimed light reflective device and focusing lens. Logan et al, however, teach that for a similar dental curing device in Figure 4 that it is desirable to provide unpackaged LEDs on a heat sink 36 with a cover 40, a light reflective device 43 and a focusing lens 44. In figure 4 of Logan et al the focusing lens 44 focuses light on to light transport device 76. To have provided for such an LED, light reflective and focusing arrangement in the Mills

Application/Control Number: 10/073,672 Page 3

Art Unit: 3732

device in order to enhance the amount of light as taught by Logan et al would have been obvious to one of ordinary skill in the art.

Action Made Final

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to **Ralph Lewis** at telephone number **(703) 308-0770.** Fax (703) 872-9306. The examiner works a compressed work schedule and is unavailable every other Friday. The examiner's supervisor, Kevin Shaver, can be reached at (703) 308-2582.

R.Lewis September 17, 2004

Raipn A. Lewis Primary Examiner

AU3732